THE MINISTER OF STATE IN THE MINISTRY OF RURAL AREAS AND EMPLOYMENT (SHRI CHANDRADEO PRASAD VARMA): (a) Yes, Sir, the Exhibition on Rural Housing highlighted the attention on the status of various programmes of Rural Housing, technological innovation, traditional and alternative building materials, suitable habitates thereby encouraging people's participation in the Rural Housing Programmes.

(b) A large number of persons and organisations including various Governmental and non-governmental organisations visited the exhibition and were benefited with various innovative technologies and ideas demonstrated in the exhibition for improving the rural housing situations in the country.

(c) Yes, sir.

(d) An Action Plan has been drawn up to provide houses to all homeless rural poor by the year 2000 A.D. by adopting innovative technologies, materials, methods, designs etc. for construction of cost effective and durable houses.

446. [Withdrawn]

Failure of Mini-Cryogenic Test Engines

447. SHRI K.R. MALKANI: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that at least three mini-cryogenic test engines have blown up, as reported in the Hindustan Times dated the 28th May, 1996;

(b) if so, the reasons for the failure;

(c) whether the ISRO spying scandal has contributed to the delay and the damage; and

(d) by when Government expect to develop country's own successful cryOgenic engine?

THE MINISTER OF STATE OF THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION AND MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI YOGINDER K. ALAGH): (a) and (b) No, Sir. As a part of the development of cryogenic technology, systematic experimentation at sub scale engine level is being carried out. Out of about 15 tests so far carried out, one test was unsuccessful during the evaluation of procedures for handling cryogenic fluids. After corrective actions, three successful ignition trials have been carried out.

(c) and (d) No, Sir. The arrest of two senior ISRO scientists, the investigation for alleged espionage and the resultant adverse publicity did initially affect the morale of ISRO scientists, engineers and staff. However, this did not delay the realisation of the planned programme of ISRO, including the cryogenic development. With the current level of progress in this complex technology, an ambitious goal of realising the indigenous engine in the time frame of 1999-2000 has been set.

परमाणु विद्युत उत्पादन

448. **श्री एस॰एस॰ सुरजेवाला:**
श्री अजीत जोगी:

क्या प्रधान मंत्री यह बताने की कृपा करेंगे कि:

(क) गत तीन वर्षों के दौरान परमाणु विद्युत संयंत्रों के माध्यम से संयंत्र-वार और वर्ष-वार कितनी-कितनी मात्रा में विद्युत का उत्पादन किया गया;

(ख) इसी अवधि के दौरान वे परमाणु रिएक्टर कितनी बार खराब हुए और इसके परिणाम स्वरूप विद्युत उत्पादन में कितना घाटा हुआ;

(ग) क्या इन संयंत्रों और रिएक्टरों के बार-बार खराब होने के कारणों का पता लगाया गया है;

(घ) यदि हां, तो तत्संबंधी ब्यौरा क्या है; और

(ङ) भविष्य में इन परमाणु विद्युत संयंत्रों का नियमित कार्यकरण सुनिश्चित करने हेतु सरकार द्वारा क्या कदम उठाए गए हैं?

योजना तथा कार्यक्रम कार्यान्वयन मंत्रालय के राज्य मंत्री तथा विज्ञान और प्रौद्योगिकी मंत्रालय के राज्य मंत्री (श्री योगेन्द्र के॰ अलघ): (क) वाणिज्यिक स्तर पर काम कर रहे परमाणु विद्युत संयंत्रों